PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PALGE03248	FOR FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/KR2003/000109	International filing date(day 17 JANUARY 2003)	y/month/year)	Priority date (day/mon			
International Patent Classification (IPC			<u></u>			
IPC7 C08G 18/00	,		:			
Applicant			•			
LG ELECTRONICS INC. e	t al					
This international preliminary and is transmitted to the applica This REPORT consists of a total	ant according to Article 36.	orepared by this In		amining Authority		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total	al ofsheets.					
3. This report contains indication:	s relating to the following iten	ns:				
I Basis of the repor	t .					
II Priority			٠.			
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention						
V Reasoned statem citations and exp	ent under Article 35(2) with r lanations supporting such state	egard to novelty, in	ventive step or industrial a	pplicability;		
VI Certain documen	•		·			
VII Certain defects in	the international application			•		
VIII Certain observati	ons on the international applic	cation				
*						
Date of submission of the demand		Date of completion	of this report			
11 AUGUST 2004	(11.08.2004)	03 MAY 2	2005 (03.05.2005)			
Name and mailing address of the IPI	•	Authorized officer		Managa Sa		
Korean Intellectual Prop 920 Dunsan-dong, Seo- Republic of Korea	perty Office gu, Daejeon 302-701,	BAHN, Yon	g Byung			
Facsimile No. 82-42-472-7140		Telephone No. 8	2-42-481-5539	Teo la le de		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

144

International aplication No.

PCT/KR2003/000109

I.	Basis	s of the report	
1.	With	regard to the elements of the international application:*	
	\boxtimes	the international application as originally filed	
		the description:	
		pages, as originally filed pages, filed with the demand	
		pages, filed with the letter of	
		the claims:	
		pages, as originally filed pages, as amended (together with any statment) under Article 19	
		pages, filed with the demand pages, filed with the letter of	
		the drawings:	
		pages, as originally filed pages, filed with the demand	
		pages filed with the letter of	
		the sequence listing part of the description:	
		pages, as originally filed pages, filed with the demand	
	. :	pages, filed with the letter of	
2.	the i	n regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item.	:
	1 ne	se elements were available or furnished to this Authority in the following language English which is	
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).	
		the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/	
		or 55.3).	
3.		th regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international liminary examination was carried out on the basis of the sequence listing:	
		contained inthe international application in written form.	
		filed together with the international application in computer readable form.	
ľ		furnished subsequently to this Authority in written form.	
		furnished subsequently to this Authority in computer readable form	
		The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applicationas as filed has been furinshed.	
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.	
,	\Box	The amendments have resulted in the cancellation of:	
"	ш		
		the description, pages	
		the claims, Nos the drawings, sheets	
5.		the drawings, sneets	
		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	
*	in thi	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 70.17).	
**	* Any i	replacement sheet containing such amendments must be referred to under item I and annexed to this report.	

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No. PCT/KR2003/000109

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
•	Novelty (N)	Claims	1-3	YES
		Claims	NONE	NO
-	Inventive step (IS)	Claims	1-3	YES
		Claims	NONE	NO
	Industrial applicability (IA)	Claims	1-3	YES
		Claims	NONE	No

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: US 5,840,781 A (Bayer Aktiengesellschaft)

The present invention according to claims 1-3 relates to a composition for preparing polyurethane foam having improved adhesive strength, and a rigid polyurethane foam made therefrom is provided. The composition is prepared using a cyclopentane system as a physical blowing agent and suitably adjusting the kind and content of polyols having low viscosity. The combination of polyols makes the most direct influence on the increase of the adhesive strength and the silicon-active agent improves a mixing efficiency in mixture having very low mutual solubility and stabilizes a cell by inhibiting irregular formation and growth of air foam.

Document D1 cited in the search report, which is regarded as the closest prior art, discolses a polyether polyols formulation and their use in production of hard polyurethane foams. The polyol formulation includes a sucrose-based polyether polyol having an OH number of from about 350 to about 500, and contains cyclopentane as a blowing agent.

Comparing the present invention with D1, the subject matter of claims 1-3 differs in the combination of three polyols having low viscosity. As a result, in the specific kind and content of polyols and other ingredients used, improved adhesive strength can be obtained.

Therefore, the subject matter of claims 1-3 is considered to be novel, to involve an inventive step and to be industrially applicable.

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.

PCT/KR2003/000109

	PC1/RR2003/000109
VII. Certain defects in the international application	
The following defects in the form or contents of the international application have been no	oted:
In the detailed description and claims 1-2 of the present invention, the terminologic be consistent throughout the international application. It was written by "polyiso 10.2 PCT is, thus, not fulfilled.	ogy of "polyisocyanate" should not ocianate". The requirement of Rule
	•
· · · · · · · · · · · · · · · · · · ·	
*	
·	